

What is claimed is:

1. An electromagnetic filter comprising:
a substrate having a substantially planar first side, a second side and a feedthrough surface, the feedthrough surface defining an orifice extending from the first side to the second side;
a feedthrough conductor extending through the orifice;
a first dielectric component supported from the first side and partially surrounding the conductor; and
a second dielectric component supported from the first side and partially surrounding the conductor.
2. The filter of claim 1, wherein the first dielectric component is a capacitor.
3. The filter of claim 2, wherein the first dielectric component has conductive plates separated one from the other by a dielectric material.
4. The filter of claim 1, wherein the first dielectric component has a conductive contact electrically connected to the first side.
5. The filter of claim 4, wherein the first dielectric component has a first conductive plate electrically connected to the conductive contact, and a second conductive plate separated from the first conductive plate by a dielectric material and not electrically connected to the conductive contact.
6. The filter of claim 1, wherein the first dielectric component has a conductive contact electrically connected to the feedthrough conductor.
7. The filter of claim 6, wherein the conductive contact is not within the orifice.
8. The filter of claim 6, wherein the first dielectric component has a first conductive plate electrically connected to the conductive contact, and a second conductive plate separated from the first conductive plate by a dielectric material and not electrically connected to the conductive contact.

9. The filter of claim 1, wherein each dielectric component has a conductive contact electrically connected to the first side.

10. The filter of claim 9, wherein each dielectric component has a first conductive plate electrically connected to the conductive contact, and a second conductive plate separated from the first conductive plate by a dielectric material and not electrically connected to the conductive material.

11. The filter of claim 1, wherein each dielectric component has a conductive contact electrically connected to the feedthrough conductor.

12. The filter of claim 11, wherein the conductive contact is not within the orifice.

13. The filter of claim 11, wherein each dielectric component has a first conductive plate electrically connected to the conductive contact, and a second conductive plate separated from the first conductive plate by a dielectric material and not electrically connected to the conductive material.

14. The filter of claim 1, wherein the substrate is at a first electric potential and the conductor is at a second electric potential.

15. The filter of claim 1, wherein the first dielectric component has a side joined to the substrate by a conductive material.

16. The filter of claim 1, wherein the first dielectric component has a side joined to the feedthrough conductor by a conductive material.

17. The filter of claim 16, wherein the conductive material is not in the orifice.

18. A method of providing an electromagnetic filter, comprising:
provide a substrate having a substantially planar first side, a second side and a feedthrough surface, the feedthrough surface defining an orifice extending from the first side to the second side;

provide a feedthrough conductor extending through the orifice;

support a first dielectric component from the first side and proximate to the

feedthrough conductor;

support a second dielectric component from the first side and proximate to the feedthrough conductor.

19. The method of claim 18, further comprising electrically connecting a conductive contact of each dielectric component to the substrate.

20. The method of claim 18, further comprising electrically connecting a conductive contact of each dielectric component to the feedthrough conductor.